

*B
Cup*

- a) an anteriorly expandable implant adapted to promote bone growth between the adjacent vertebrae; said implant having upper and lower walls extending between anterior and posterior ends of the implant and a posterior wall connecting the upper and lower walls;
- b) a post mounted in said posterior wall and extending to near the anterior end of said implant;
- c) an expansion member operably coupled with said post and engaging said upper and lower walls for expanding an anterior spacing between said upper and lower walls, so as to operably urge said implant upper and lower walls into a predetermined angle relative to one another and so as produce a desired alignment of the adjacent vertebrae;
- d) a cover assembly having upper and lower support surfaces for supporting an anterior region of the adjacent vertebrae; and
- e) a fastener mechanism operably securing said cover assembly and said expansion member to said implant during use.

32. The apparatus according to Claim 31 wherein:

- a) said implant includes an interior chamber for receiving bone fragments; and
- b) said implant has a plurality of radially positioned apertures for permitting bone fragments in said chamber to join and fuse with bone in the adjacent vertebrae.

*Sub
C2*

*B1
C2* 33. An apparatus for stabilizing adjacent vertebrae of a spine by promotion of bone fusion between the adjacent vertebrae, said apparatus comprising:

- a) an implant for implanting between a pair of adjacent vertebrae, said implant adapted to promote bone growth between the adjacent vertebrae;
- b) an expansion cap coupled with said implant for expanding opposite sides of an anterior end of said implant to a predetermined spacing between the sides to provide a desired alignment of the adjacent vertebrae; and
- c) an implant end cover operably positioned anterior of said implant and operably secured to said implant; said cover including upper and lower support surfaces for operably engaging and

~~supporting an anterior region of said adjacent vertebrae.~~

34. The apparatus according to Claim 33 wherein:

- a) said expansion cap includes a recess for receiving a fastener to secure said cap to said implant.

35. The apparatus according to Claim 33 wherein:

- a) said implant includes an interior chamber for receiving bone fragments; and
- b) said implant has a plurality of radially positioned apertures for permitting bone fragments in said chamber to join and fuse with bone in the adjacent vertebrae.

36. The apparatus according to Claim 33 wherein:

- a) said expansion cap and said implant include structure for cooperatively locking together said cap and said implant when fully joined.

37. In a cylindrical implant for operably positioning between a pair of adjacent vertebrae so as to stabilize the vertebrae; the improvement comprising:

- a) an implant end cover operably located directly

adjacent an anterior end of said implant during use; said end cover having upper and lower surfaces that are sized, shaped and positioned so as to provide additional anterior support to said vertebrae after said implant is located between the vertebrae.

38. The implant according to Claim 37 wherein:

a) each of said surfaces is generally flat, elongate, parallel to one another and sized to extend from side to side along more of the adjacent vertebrae than said implant.

39. The implant according to Claim 37 wherein:

a) said implant is anteriorly expandable; and
b) said end cover is secured relative to said implant after expansion of said implant and said cover is sized and shaped to engage the vertebrae after expansion of the implant.

40. In an implant that in use is located between adjacent vertebrae for stabilizing such vertebrae and wherein the implant has upper and lower walls joined by a posterior wall, the improvement comprising: